DS1/DS1C/DS2 Transport System Cable

26 AWG STC, Dual Shield, Riser (1249C Equiv.)

ADC provides exceptional 100-Ohm central office copper cables for both analog and digital services. Reducing electromagnetic interference (noise) and maintaining signal integrity enriches data throughput. The improved crosstalk and attenuation of ADC's central office copper cables helps to eliminate throughput bottlenecks at high speeds. Enhanced throughput translates to decreased service downtime and increased customer satisfaction.

As high-speed services move closer and closer to the subscriber premise, size and space become significant obstacles. Many of ADC's central office copper cables have been designed with smaller outside diameters and cross-sectional areas without giving up performance to meet the demanding space requirements of cabinets and remote terminals. ADC's central office copper cables are chosen for their excellent quality, performance, size, and flexibility in many applications, including digital voice, data and video. In addition, ADC's central office copper cables adhere to industry standards and known environmental regulations.

SPEC SHEET

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Benefits

- Combines innovative design and application engineering to deliver a cabling solution that exceeds your network's physical layer requirements
- Offers improved crosstalk and attenuation performance to deliver the bandwidth required for digital voice, data and video
- Helps eliminate throughput bottlenecks and service downtime, improving customer satisfaction
- Provides consistent product quality
  - No missing insulation, no excess adhesion
  - Tangle-free, kink-free
  - Jacket and insulation concentricity and cable roundness
  - Small outside diameter and cross-sectional area in bundles and cable
  - Streamlined engineering, production and quality processes
  - In-process manufacturing quality inspections
- Meets or exceeds industry requirements and environmental regulations
  - Heavy-metal free (i.e. cadmium, lead, mercury, etc.)
  - Compliant to Directive 2002/95/EC Restriction of the use of certain Hazardous Substances (RoHS) and other known environmental regulations
- Provides exceptional design and enhanced electrical and mechanical performance.
- Adheres to strict industry tolerance standards and customer specifications for use throughout major service provider networks around the world

Common Applications

- Central office, including main distribution frames, collocation, digital switching and transmission equipment
- Outside plant networks, including CEV's, cabinets, remote terminals, and at customer premise
- FTTN, where copper cable is required from the ONT to the MDU
- Cable assemblies to connect active equipment in CO, OSP and customer premise
- Copper Broadband Technologies, including
  - Digital Voice, Data (xDSL) and Video (IPTV)
  - DS1/T1
  - DS2/T2
  - DS1C
  - Basic and Primary Rate ISDN
  - 4/16 Mbps Token Ring (IEEE 802.5)
  - 10BASE-T (IEEE 802.3)
  - 52 Mbps ATM (ATM Forum)
  - 100BASE-T4 (Fast Ethernet)
  - 100VG-AnyLAN (IEEE 802.12)

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Compliances:

- UL Subject 444/CSA C22.2 No. 214
- (UL)-C(UL) Type CMR/CMG
- ICEA S-80-576
- Telcordia Technical Audit Report AU-833 Compliance testing to GR-137-CORE
- Telcordia GR-499 DSX-1 Pulse Wave Shape Compliance at 450 feet

Specifications

CONSTRUCTION CHARACTERISTICS

Conductors:	26 AWG solid tinned copper
Insulation:	Flame retardant Polyolefin
Insulation diameter:	0.76 mm (.030") nominal
Pairing:	Tight lays
Shielding:	Dual aluminum/polyester
Drain wire:	24 AWG solid tinned copper
Color-coding:	Standard telephony, solid colors
Rip cord:	Non-hygroscopic and non-wicking
Jacket:	Dual, Lead-free flame retardant PVC

ELECTRICAL CHARACTERISTICS

Conductor DC resistance (maximum):	15Ω/100m (46.0Ω/1000') @ 20° C (68° F)
Resistance unbalance (maximum):	5%
Insulation resistance:	164mΩ/100m (500mΩ/1000') @ 20° C (68° F)
Mutual capacitance:	6.5nF/100m (20.0 pF/ft) nominal @ 1 kHz
Characteristic impedance:	100 ± 15 Ohms @ 1 MHz
Crosstalk:	43 dB @ .772 MHz 40 dB @ 1.575 MHz 32 dB @ 3.156 MHz
Temperature rating:	75° C (167° F)
Voltage rating:	300 VDC

Nominal Attenuation:

Signal	Frequency (MHz)	Bit Rate	(dB/1000')	(dB/100m)
DS1	.772	1.544	5.5	1.8
DS1C	1.575	3.152	7.8	2.6
DS2	3.156	6.312	10.8	3.6

*See back cover for ordering information.

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Ordering Information

Description	Number of Pairs	Unit Makeup	Outer Diameter mm (inches)	Weight Kg/Km (lbs/1000')	Catalog Number
26 AWG Dual Shield FTP Riser Jacket color: Gray Packaging: Reel Equivalent to 1249C Series	4	None	7.6 (.30)	49 (33)	DSR-04261DDGY*XX*
	6	None	7.9 (.31)	51 (34)	DSR-06261DDGY*XX*
	8	None	8.2 (.32)	76 (51)	DSR-08261DDGY*XX*
	12	None	8.9 (.35)	88 (59)	DSR-12261DDGY*XX*
	16	None	9.1 (.36)	108 (67)	DSR-16261DDGY*XX*
	20	None	9.4 (.37)	122 (82)	DSR-20261DDGY*XX*
	25	None	11.4 (.45)	140 (94)	DSR-25261DDGY*XX*
*To designate reel length, replace *XX* as follows: 02 = 304 m (1000 ft) 04 = 609 m (2000 ft) 05 = 762 m (2500 ft) 06 = 914 m (3000 ft) 10 = 1524 m (5000 ft)	28	1 @ 25, 1 @ 3	11.7 (.46)	149 (100)	DSR-28261DDGY*XX*
	30	1 @ 25, 1 @ 5	11.7 (.46)	164 (110)	DSR-30261DDGY*XX*
	32	1 @ 25, 1 @ 7	11.9 (.47)	179 (120)	DSR-32261DDGY*XX*
	50	2 @ 12, 2 @ 13	15 (.59)	283 (190)	DSR-50261DDGY*XX*
	56	2 @ 20, 1 @ 16	15.2 (.60)	290 (195)	DSR-56261DDGY*XX*
	100	4 @ 25	18.8 (.74)	580 (390)	DSR-00261DDGY*XX*

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Web Site: www.adc.com

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Fax: +1-952-917-3237 • For a listing of ADC's global sales office locations, please refer to our web site.

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